

SECTION 02083B  
TRANSPORTATION AND DISPOSAL OF  
PCB AND PCB-CONTAMINATED WASTES

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Transport and dispose of all PCB and PCB contaminated liquid wastes generated during the work. Ownership of PCB and PCB contaminated items and liquids shall remain with the Government.
- B. Transport and dispose of all solid materials containing PCBs that result from performing the work except as indicated in paragraph 1.01.C.
- C. Materials containing PCBs that result from cleanup of spills caused by the contractor shall be the full responsibility of the contractor. These materials shall be contained and disposed of at the contractor's expense.

1.02 REFERENCES

A. Environmental Protection Agency, EPA:

- 1. Title 40 Code of Federal Regulations, Part 761, 261, 262, 263; all applicable Subparts, the most recent amendments.

B. Occupational Safety and Health Administration, OSHA:

- 1. Title 29 Code of Federal Regulations, Part 1910 and Part 1926; all applicable Subparts, the most recent amendments (especially 1910.120, 106, 133, 134, 144).

C. Department of Transportation, DOT:

- 1. Title 49 Code of Federal Regulations, Part 171, 172, 173, 177 and other applicable parts; the most recent amendments.

1.03 SPILLS

- A. Immediately report new or newly discovered existing PCB spills of any size to the Environmental Management Office, 257-7152, Contract Management, 257-2047 and Civil Engineering Service Call, 257-6764. A verbal report shall be made within one (1) hour after discovery.
- B. The Contractor shall provide and maintain on-site spill equipment sufficient in both quantity and type to contain and clean-up any spill within twenty-four (24) hours of discovery.
- C. All materials and/or surfaces contaminated with PCB spilled during the work shall be the contractor's responsibility. The contractor shall contain the spill, perform the cleanup, provide all analytical services required to verify clean-up, restore the area to as near original condition, and transport and dispose of the contaminated materials per regulations and specifications; all at no cost to the Government.

#### 1.04 SUBMITTALS

A. Submit a Project Work Plan for approval in accordance with Section 01300. This plan shall include the following:

1. Detailed procedures for the removal, handling, packaging, transportation and disposal of PCB and PCB contaminated liquid and solid materials. Include all applicable permits, licenses, and notifications required by Federal, State and Local regulations for the transportation and disposition of wastes containing PCBs.
2. A Health and Safety Plan satisfying the criteria of 29 CFR 1910.120.
3. A Spill Prevention, Countermeasures and Control Plan including a Transportation and Containment Plan meeting the criteria of 40 CFR 264.50, 49 CFR, and 29 CFR 1910.120.
4. A detailed project schedule indicating the sequence of operations to be performed.

#### 1.05 COORDINATION

A. The contractor shall notify the following in writing at least ten (10) working days prior to starting work at a site:

1. 88 CEG/CECC Contract Management (Project Inspector).
2. 88 ABW/EM Environmental Management (Waste Management).

B. The names of the personnel to be notified will be given to the contractor at the pre-construction meeting.

#### 1.06 PROTECTIVE EQUIPMENT

A. The contractor shall provide and maintain all personal protective equipment required by 29 CFR 1910 to perform PCB removal operations. This equipment is to be disposable to the extent allowable by regulations.

1. Protective equipment shall include, among other things; protective gloves, faceshields, coveralls, boots, and cartridge respirators.
2. All protective equipment contaminated with PCB shall either be decontaminated in accordance with the paragraphs on "EQUIPMENT DECONTAMINATION", or containerized and disposed of as PCB waste in accordance with the paragraphs on "DISPOSAL OF PCB WASTE".

#### 1.07 DEFINITIONS

A. POLYCHLORINATED BIPHENYL (PCB): Any chemical substance that is limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contains such substance.

B. PCB LIQUID WASTE: Any liquid identified to contain PCB through laboratory analysis at a concentration equal to or exceeding 500 PPM.

C. PCB SOLID WASTE: Any solid that comes in direct contact with PCB liquids which cannot be decontaminated and any solid materials generated as the result of PCB Spill clean-up operations.

D. PCB-CONTAMINATED LIQUID WASTE: Any liquid identified to contain PCB through laboratory

analysis at a concentration greater than or equal to 50 PPM and less than or equal to 499 PPM or those liquids the USEPA requires to be assumed at 50-499 PPM in the absence of testing.

E. PCB CONTAMINATED SOLID WASTE: Any solid that comes into direct contact with PCB Contaminated liquids which cannot be decontaminated and any solid materials generated as the result of PCB Contaminated spill clean-up operations.

F. PCB CONTAINING WASTES: Any wastes either tested and found to contain PCB greater than or equal to 50 PPM or those requiring assumption under 40 CFR 761. These wastes include both PCB and PCB-contaminated liquids (including all flushing wastes) and solids.

G. PCB SPILL: The intentional and/or unintentional spills, leaks, and other uncontrolled discharges where the release results in any quantity of PCB, running off or about to run off the external surface of the equipment; and the contamination resulting from those releases.

H. MANIFEST: The document authorized by both Federal and State authorities for tracking the movement of PCB containing wastes.

I. RETURNED MANIFEST: An original duplicate copy of the manifest provided to the PCB Waste generator within forty-five (45) days of the transport date which acknowledges the receipt of the material at the disposal facility.

J. CERTIFICATE OF DISPOSAL: The document provided to the generator certifying that the PCB wastes were disposed of in strict accordance with all applicable Federal, State and Local regulations.

#### 1.08 PERFORMANCE REQUIREMENTS

A. The PCB Waste Disposal requirements defined in 40 CFR 761.60 shall be met and certified complete by the contractor in strict accordance with these requirements. Certification shall be made by the issuance of a Certificate of Disposal by the selected disposal company per section on "Disposal of PCB Waste" of this specification.

#### 1.09 QUALIFICATIONS

A. The transportation company used for the transportation of PCB containing wastes shall be authorized by the USEPA and shall be required to provide such authorization as defined in 40 CFR 761 prior to any PCB containing waste movement. This company shall be in good standing with Federal and State authorities.

B. The disposal company used for the disposal of PCB containing wastes shall be permitted by both Federal and State EPAs under the authority of the Toxic Substance Control Act for the disposal of PCB and shall provide written documentation of this authority. This company shall be in good standing with Federal and State Authorities.

#### PART 2 - PRODUCTS

Not Used.

#### PART 3 – EXECUTION

##### 3.01 EQUIPMENT DECONTAMINATION

A. Decontaminate all non-disposable solid surfaces contaminated with PCB during the cleanup prior to exiting each site. Decontamination shall be accomplished through a double-wash/rinse using a commercial/industrial liquid cleaner containing limonene as the organic solvent and an emulsifier. Apply liberally to the surface, aggregate and rinse with clean water. Concurrently capture all free flowing liquids using a wet vacuum.

B. Decontaminate all pumps and hoses used for pumping PCB or PCB-contaminated oils prior to exiting each site.

### 3.02 CLEANUP OF SPILLS THAT OCCUR DURING WORK ON THE CONTRACT

A. Ensure notification is made per the "SPILLS" paragraph. Implement the immediate action requirements contained in 40 CFR 761 and commence cleanup within 24 hours of the spill.

B. Clean all surfaces/soils to the defined standards for residential/commercial areas in accordance with in 40 CFR 761.120. Include all verification sampling required and prepare a response report. This report must be submitted to the Office of Environmental Management with seven (7) working days after the completion of the clean-up.

### 3.03 PREPARATION FOR TRANSPORT OF WASTES CONTAINING PCBS

A. All wastes containing PCBs shall be packaged for transportation in strict accordance with all applicable regulations found in 49 and 40 CFR.

1. Contain all liquids in 30 gallon or 55 gallon closed head steel shipping drums. The Department of Transportation approved drums shall meet DOT 17E specifications and be in good condition. Do not fill over 90% of drum capacity. Bulk transportation may be accomplished using tankers authorized for PCB liquid waste transit by DOT.

2. Contain all solid PCB material (used absorbent material, disposable clothing, removed soil, disposable tools, etc.) in 30 gallon or 55 gallon open head steel shipping drums. The Department of Transportation approved drums shall meet DOT 17C specifications and must be in good condition.

B. Do not place non-PCB oils or items in containers with PCB oils or items. Do not place PCB oils or items in containers with non-PCB-contaminated oils or items.

C. Identify each item individually with the following.

1. The appropriate PCB label per Figure 1, 2, 3 or 4.

2. Individually date all items to show when PCB wastes were first placed into the container.

D. EM Certification. EM will conduct a site inspection required for certification of items to be transported and disposed. EM will provide an AFLC Form 165, Hazardous Waste Label, to be applied to each item prior to any movement.

E. The Contractor shall be responsible for repackaging any containers that are considered by EM to be unsuitable for shipment.

### 3.04 TRANSPORTATION OF PCB WASTE

A. Manifest: The USEPA Uniform Hazardous Waste Manifest or the appropriate manifest required by the State in which the disposal requirements are to be met shall be used for the transportation of PCB containing wastes. Coordinate a date and time with EM for obtaining EM representative to inspect the shipment and sign the manifest prior to transporting.

B. Authorized Transporter: Utilize a trucking firm that has all the necessary permits/licenses issued by the State and Federal authorities to transport wastes containing PCBs through all required states.

C. Notice of Receipt: The owner/operator of the selected disposal company shall contact EM directly upon receipt of each waste containing PCBs shipment. Such verbal acknowledgement shall be made

within twenty-four (24) hours of receipt of waste containing PCBs.

D. Returned Manifest: Provide an original copy of the returned manifest to EM acknowledging the receipt of the manifested PCB at the disposal facility within forty-five calendar days of the date during which the PCB was manifested. If a returned copy is not received within the allotted timeframe, the notifications to USEPA required by 40 CFR 761 shall be initiated by EM.

E. Manifest Corrections: Ownership of all waste Containing PCBs shall remain with the Government. Any and all manifest discrepancies shall be corrected between the disposal company and EM. The contractor shall not make any corrections or changes.

### 3.04 DISPOSAL OF PCB WASTE

A. Disposal Requirements: All wastes containing PCBs shall be disposed of in strict accordance with all the required methods and/or standards defined in all applicable regulations; except that the use of any waste containing PCBs for energy recovery is strictly prohibited.

B. Destruction of Liquids: Disposal of liquid wastes containing PCBs shall be accomplished only through permitted facilities and processes authorized by both the Federal and State EPAs. This includes incineration and/or chemical detoxification so long as a TSCA permit has been issued and the process results in the complete destruction of the wastes containing PCBs. Solidification of any liquid waste containing PCBs is strictly prohibited.

C. Disposal of Solids: Disposal of solid wastes containing PCBs shall be accomplished only through permitted facilities authorized by both Federal and State EPAs. This includes incineration and/or secure chemical waste land filling so long as a TSCA permit has been issued to the disposal facility.

D. Certificate of Disposal: The disposal company shall issue a Certificate of Disposal as soon as possible following the disposal but in no case shall this period exceed the one (1) year limitation from the date of generation at WPAFB.

END OF SECTION